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(21)Application number : 2003-178244
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(71)Applicant : BRIDGESTONE CORP
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(54) FLAME-RETARDANT POLYURETHANE FOAM

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a flame-retardant polyurethane foam excellent in flame retardancy and prepared by using a non-halogenous flame retardant.
SOLUTION: The flame-retardant polyurethane foam is produced by reacting a polyol component with a polyisocyanate component in the presence of a phosphazene compound containing no halogen element as a flame retardant. The content of the phosphazene compound containing no halogen element is 1-20 pts.wt. based on 100 pts.wt. polyol, and the phosphazene compound is diethoxyphosphinylphosphoroimidic triethoxide.

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(54) PRODUCTION OF POLYOXYALKYLENE POLYOL, FLEXIBLE POLYURETHANE FOAM AND NON-FOAMING POLYURETHANE

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain polyoxyalkylene polyol that is useful as a raw material for polyurethane resin or the like of high quality with perioxide concentration reduced by purifying a specific crude polyoxyalkylene polyol with a specific amount of antioxidant agent.
SOLUTION: Crude polyoxyalkylene polyol is prepared by polyaddition polymerization of an alkylene oxide to (A) an active hydrogen atom-bearing compound in the presence of a catalyst, a phosphazenium. The crude polyoxyalkylene polyol is neutralized with a neutralizing agent, at least one selected from (B) inorganic acid, inorganic acid acidic salt and organic acid, then, an antioxidant is added to the neutralized product in an amount of 100-4,000 ppm, in addition, an inert gas is introduced into the component A and they are treated with vacuum of 300 mmHg abs. at 70-160° C and the oxygen concentration in the vapor phase is maintained ≤500 ppm in the steps from the neutralization process to the vacuum treatment thereby giving the objective compound having a peroxide concentration of ≤0.28 mmol/kg.

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(71)Applicant : MITSUI CHEMICALS INC
(72)Inventor : MATSUZAKA YASUHIRO
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KUWAMURA GORO
NISHIGUCHI DAISUKE
UENO KAORU

(54) FINE FOAMED POLYURETHANE ELASTOMER AND THE MANUFACTURING METHOD

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain a polyurethane elastomer which can suitably use for the field requiring an excellent mechanical property and cushioning characteristics, especially for the use of the sole of shoes or the like.
SOLUTION: A fine foamed polyurethane elastomer is obtained from a compound with active hydrogen groups and a modified polyisocyanate obtained by reacting a polyisocyanate with an aromatic polyesterpolyol obtained from phthalic acid and a glycol having, a hydroxyl value of 20 or 150 mgKOH/g, an acid value ≤0.4 mgKOH, metal contents ≤60 μg/g, the content ratio of COO-C6H4-COO unit ≥2% by mass and ≤65% by mass.

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